

ABSTRACT

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A proximity detector for use in a mobile telephone apparatus, wherein the phone has at least a microphone (1) and a loudspeaker (5) operatively connected to signal processing means (2,3,4). The proximity detector comprises data processing and control means (6) including means for controlling the signal processing means (3,4) in order to activate the loudspeaker for reproducing an acoustic control signal, correlating means for correlating the control signal received directly (D_{direct}) by the microphone (1) and the control signal being reflected ($D_1 + D_2$) from a user (13) of the phone (9) and then received by the microphone (1) for determining the distance ($D_1 \approx D_2$) between the phone (9) and the user (13), and signal level control means for controlling the signal processing means (3,4) in order to varying the signal level of an audible signal reproduced by the loudspeaker (5) proportionally to the determined distance ($D_1 \approx D_2$) between the phone (9) and the user (13).

20

To be published with FIG 2A